# Appendix A - 1

Preliminary Environmental Observations and Evaluations

**Table T - 1** Preliminary Environmental Observations

Alternate	Relocations	Travel Patterns	Community Community		Noise	Possible Hazardous Sites	Remarks	Const. Cost Estimate
A-1	None	S: 3.3 km (2 miles) increase	South side is	Electrical transmission lines	S: higher at 12 homes	None	Design speed is 60 km/h (40 mph) at curve. Indirect, inefficient route to Route 1. Too far south to serve Village of Tilton.	\$ 14,813,640
A-2	None	S: U.3 KM (U.2	N: no change from current patterns	INODE	N; no change	None	Design speed is 40 km/h (20 mph) at curve. Indirect, inefficient route to Route 1.	\$ 246,120
A-3	None	18'' 11 K MM (11 7	N: no change from current patterns	None	N: no change	None	Design speed is 40 km/h (20 mph) at curve. Indirect, inefficient route to Route 1.	\$ 577,800
_ <b>8-</b> 1 _■	S: 4-residences- 2 commercial	S: 0.3 km (0.2 miles) increase	S: passes thru residential neighborhood	None <sup>-</sup>	S: higher at 12 homes	None	Design speed is only 40 km/h (20 mph) at curve. Indirect, inefficient route to Route 1.	\$ 4,128,167
B-2	S: 11 residences 2 commercial	S: 0.3 km (0.2 miles) increase	M: passes between I-74 & residential neighborhood	None	N: no change	None	Design speed is 60 km/h (40 mph). Lines up with West 14th Street ramp at Route 1.	\$ 5,299,674
B-3	s: 9 residences 3 commercial	N: no change from current patterns	N: no change from current patterns	Minimal: Must build retaining wall in front of church.	N: no change	Some: 1 propane gas and 2 fuel oil facilities.	Design speed is only 40 km/h (20 mph) at curve.	\$ 6,351,762
B-4	S: 5 residences 0 commercial	N: no change from current patterns	N: no change in from current patterns	ที่ก็เก่าฮล" เฟอ็รต* build retaining wall in front of church.	N: no change	Some: 1 propane gas and 2 fuel oil facilities.	ປະຮາເgri speéà ເຮືອບ km/n (40 mph) Most direct route to Route 1.	5,591,050

Potential Concern: H = High, S = Some, M = Minimal, N = None

#### ALTERNATE A - 1

ITEM	QUANTITY	UNIT	ľ	INIT COST	E	XTENTION
EXCAVATION	25,000	cu m	\$	6.00	\$	150,000
EMBANKMENT	90,000	cu m	\$	10.00	\$	900,000
PAVEMENT REMOVAL	2,160	sq m	\$	5.00	\$	10,800
PAVEMENT	33,000	sq m	\$	42.00	\$	1,386,000
CURB AND GUTTER	66,000	m	\$	56.00	\$	3,696,000
SIDEWALK	0	sq m	\$	43.00	\$	
SOD AND TOPSOIL	200,000	sq m	\$	5.60	\$	1,120,000
DRAINAGE STRUCTURES	1,000	each	\$	1,165.00	\$	1,165,000
STORM SEWER, 300	3,000	m	\$	78.00	\$	234,000
STORM SEWER, 375	3,000	m	\$	82.00	\$	246,000
STORM SEWER, 450	3,000	m	\$	86.00	\$	258,000
STORM SEWER, 525	3,000	m	\$	95.00	\$	285,000
STORM SEWER, 600	3,000	m m	\$	97.00	\$	291,000
STORM SEWER, 675	3,000	m	\$	114.00	\$	342,000
STORM SEWER, 750	3,000	m	\$	128.00	\$	384,000
STORM SEWER, 825	3,000	m	\$	136.00	\$	408,000
REINFORCED EARTH	0	m	\$	500.00	\$	
TRAFFIC SIGNALS	1	lump sum	\$	100,000.00	\$	100,000
BRIDGE STRUCTURE (over creek & RR)	1,690	sq m	\$	810.00	\$	1,368,900
RESIDENCE RELOCATION	0	each	\$	77,500.00	\$	-
COMMERCIAL RELOCATION	0	each	\$	70,000.00	\$	-
SUBTOTAL CONTINGENCY (20%)					\$ \$	12,344,700
CONTINGENCY (20%)					Ф Ф	2,468,940
GRAND TOTAL					\$	14,813,640

ALTERNATE, A - 2

ITEM	QUANTITY	UNIT	1	JNIT COST	E.	XTENTION
EXCAVATION	0	cu m	\$	6.00	\$	
EMBANKMENT	0	cu m	\$	10.00	\$	•
PAVEMENT REMOVAL	200					
FAVEWENT REMOVAL	200	sq m	\$	5.00	\$	1,000
PAVEMENT	1,000	sq m	\$	42.00	\$	42,000
CURB AND GUTTER	2,000	m	\$	56.00	\$	112,000
SIDEWALK	0	sq m	\$	43.00	. \$	
SOD AND TOPSOIL	2,000	sq m	\$	5.60	\$	11,200
DRAINAGE STRUCTURES	20	each	\$	1,165.00	\$	23,300
STORM SEWER, 300	200	m	\$	78.00	\$	15,600
STORM SEWER, 375	0	m	\$	82.00	\$	
STORM SEWER, 450	0	m	\$	86.00	\$	<u> </u>
STORM SEWER, 525	0	m	\$	95.00	\$	· _
STORM SEWER, 600	0	m	\$	97.00	\$	-
STORM SEWER, 675	0	m	\$	114.00	\$	*
TORM SEWER, 750	0	m	\$	128.00	\$	-
TORM SEWER, 825	0	m	\$	136.00	\$	_
EINFORCED EARTH	0	m	\$	500.00	\$	· -
RAFFIC SIGNALS	0	lump sum	\$	100,000.00	\$	-
RIDGE STRUCTURE (over creek & RR)	0	.sq m	\$	810.00	\$	-
ESIDENCE RELOCATION	0	each	\$	77,500.00	\$	-
OMMERCIAL RELOCATION	0	each	\$	70,000.00	\$	-
JBTOTAL			1			
ONTINGENCY (20%)					\$ \$	205,100 41,020
RAND TOTAL				Ī	\$ \$	246,120

ALTERNATE A - 3

ITEM	QUANTITY	UNIT		UI	VIT CO	ST	E	XTENTI
EXCAVATION	1,000	c <sub>n w</sub>		\$		3. <b>0</b> 0		
EMBANKMENT					<del></del>	<u></u> -	+-	6,
	0	cu m		\$	10	.00	\$	
PAVEMENT REMOVAL	500	sq m		\$	·	00	1	
PAVEMENT		1		Ψ		.00	\$	2,5
	6,000	sq m		\$	42.	00	\$	252,0
CURB AND GUTTER	1,200	<del></del>						
CIDENALIZ	1,200	m		\$	56.	00	\$	67,2
SIDEWALK	0	sq m		\$	43.0	<del></del>	\$	
SOD AND TOPSOIL	0.000			<del></del>		~	Ψ	<del></del>
	6,000	sq m	$\Box$	\$	5.€	0	\$	33,60
DRAINAGE STRUCTURES	30	each	<del></del>	<del></del>	4 405 5			
STORM SEWER, 300		Gacii	-+	\$	1,165.0	u	\$	34,95
STAN SEANEY 200	250	m	1	\$	78.0	0	\$	19,50
TORM SEWER, 375	250					1	<del></del>	18,00
	250	<u> </u>	\$	<u> </u>	82.0	0 :	\$	20,50
TORM SEWER, 450	250	m	-  s		96.00	٠,		·
TORM SEWER, 525			<del>-   "</del>		86.00	7   9	<del></del>	21,500
	250	m	\$		95.00	\$	;	23,750
FORM SEWER, 600	0		Ţ			I		
OPM CTATE		m	-  \$		97.00	\$		
ORM SEWER, 675	0	m	-   \$	<del></del>	114.00	1\$		
ORM SEWER, 750				<b></b>	. , 7.00	╁	<del></del>	
	0	m	\$		128.00	\$		-
ORM SEWER, 825	0	m	1-		400.00	L		
INFORCED EARTH		311	\$		136.00	\$		-
IN ONOED EARTH	0	m	\$		500.00	\$		
AFFIC SIGNALS	0					<del>                                     </del>		
		lump sum	\$	100	00.000	\$		- 1
DGE STRUCTURE (over creek & RR)	0	sq m	\$	<del></del>	940.00			
SIDENCE RELOCATION		34 111	<del>  °</del>		810.00	\$		
TOL NELOCATION	0	each	\$	77	,500.00	\$		
MERCIAL RELOCATION	0					<u></u>	<del></del>	
	<del></del>	each	\$	70,	000.00	\$		
TOTAL								
TINGENCY (20%)						\$		494 555
1 (20%)						<u>⊅</u> \$	·	481,500 96,300
ND TOTAL								20,300
						\$		577,800

ALTERNATE B - 1

QUANTITY	UNIT		UNIT COST	T	EXTENTION
1300	cu m			——	
90,000	ALL DO		40.00	Ţ.	
90,000	cu m	*	10.00	1 3	900,000
2,160	sq m	\$	5.00	\$	10,800
8,078	sq m	\$	42.00	\$	339,276
1496	m	\$	56.00	\$	83,776
0	sq m	\$	43.00	\$	
25,920	sq m	\$	5.60	\$	145,152
. 51	each	\$	1,165.00	\$	59,415
420	m	\$	78.00	\$	32,760
250	m	\$	82.00	\$	20,500
50	m	\$	86.00	\$	4,300
0	m	\$	95.00	\$	
180	m	\$	97.00	\$	17,460
0	m	\$	114.00	\$	-
0	m	\$	128.00	\$	-
0	m	\$	136.00	\$	-
0	m	\$	500.00	\$	
0	lump sum	\$	100,000.00	\$	
1690	sq m	\$	810.00	\$	1,368,900
4	each	\$	77,500.00	\$	310,000
2	each	\$	70,000.00	\$	140,000
		h		) — — — — — — — — — — — — — — — — — — —	
					3,440,139 688,028
				s	4,128,167
	1300  90,000  2,160  8,078  1496  0  25,920  51  420  250  50  0  180  0  0  1690  4	1300   cu m	1300   cu m   \$	1300 cu m \$ 6.00  90,000 cu m \$ 10.00  2,160 sq m \$ 5.00  8,078 sq m \$ 42.00  1496 m \$ 56.00  0 sq m \$ 43.00  25,920 sq m \$ 5.60  51 each \$ 1,165.00  420 m \$ 78.00  250 m \$ 82.00  50 m \$ 86.00  0 m \$ 95.00  180 m \$ 114.00  0 m \$ 114.00  0 m \$ 136.00  0 m \$ 136.00  0 lump sum \$ 100,000.00  1690 sq m \$ 810.00  2 each \$ 77,500.00  2 each \$ 70,000.00	1300

#### ALTERNATE B - 2

ITEM	QUANTITY	UNIT	Τu	NIT COST	E	XTENTION
EXCAVATION	25000	cu m	\$	6.00	\$	150,000
EMBANKMENT	85000	cu m	\$	10.00	\$	850,000
PAVEMENT REMOVAL	4860	sq m	\$	5.00	\$	24,300
PAVEMENT	10800	sq m	\$	42.00	\$	453,600
CURB AND GUTTER	2000	m	\$	56.00	\$	112,000
SIDEWALK	0	sq m	\$	43.00	\$	
SOD AND TOPSOIL	40000	sq m	\$	5.60	\$	224,000
DRAINAGE STRUCTURES	49	each	\$	1,165.00	\$	57,085
STORM SEWER, 300	570	m	\$	78.00	\$	44,460
STORM SEWER, 375	200	m	\$	82.00	\$	16,400
STORM SEWER, 450	100	m	\$	86.00	\$	8,600
STORM SEWER, 525	0	m	\$	95.00	\$	-
STORM SEWER, 600	150	m	\$	97.00	\$	14,550
STORM SEWER, 675	0	m	\$	114.00	\$	
STORM SEWER, 760	0	m	\$	128.00	\$	
STORM SEWER, 825	0	m	\$	136.00	\$	
REINFORCED EARTH	0	sq m	\$	500.00	\$	
TRAFFIC SIGNALS	1	lump sum	\$	100,000.00	\$	100,000
BRIDGE STRUCTURE (over TILTON & RR	1690	sq m	\$	810.00	\$	1,368,900
RESIDENCE RELOCATION	11	each	\$	77,500.00	\$	852,500
COMMERCIAL RELOCATION	2	each	\$	70,000.00	\$	140,000
WATER THE PROPERTY OF THE PROP						
SUBTOTAL CONTINGENCY (20%)			<del></del>		\$ \$	4,416,395 883,279
GRAND TOTAL					<b>\$</b>	5,299,674

#### ALTERNATE B - 3

ITEM	QUANTITY	UNIT	Ti	JNIT COST	E	XTENTION
EXCAVATION	2600	cu m	\$	6.00	\$	15,600
EMBANKMENT	180000	cu m	\$	10.00	\$	1,800,000
PAVEMENT REMOVAL	8640	sq m	\$	5.00	\$	43,200
PAVEMENT	13500	sq m	\$	42.00	\$	567,000
CURB AND GUTTER	2500	m	\$	56.00	\$	140,000
SIDEWALK	0	sq m	\$	43.00	\$	
SOD AND TOPSOIL	60000	sq m	\$	5.60	\$	336,000
DRAINAGE STRUCTURES	53	each	\$	1,165.00	\$	61,745
STORM SEWER, 300	580	m	\$	78.00	\$	45,240
STORM SEWER, 375	200	m	\$	82.00	\$	16,400
STORM SEWER, 450	150	m	\$	86.00	\$	12,900
STORM SEWER, 525	0	m	\$	95.00	\$	-
STORM SEWER, 600	150	m	\$	97.00	\$	14,550
STORM SEWER, 675	0	m	\$	114.00	\$	
STORM SEWER, 750	0	m	\$	128.00	\$	
STORM SEWER, 825	0	m	\$	136.00	\$	
RINFORCED EARTH (@CHURCH)	560	sq m	\$	500.00	\$	280,000
TRAFFIC SIGNALS	0	lump sum	\$	100,000.00	\$	
BRIDGE STRUCTURE (2 over RRs)	1300	sq m	\$	810.00	\$	1,053,000
RESIDENCE RELOCATION	9	each	\$	77,500.00	\$	697,500
COMMERCIAL RELOCATION	3	each	\$	70,000.00	\$	210,000
VIDTOTAL						5.000.405
SUBTOTAL CONTINGENCY (20%)					<b>\$</b> \$	5,293,135 1,058,627
GRAND TOTAL					\$	6,351,762

ALTERNATE B-4 ( 2 LANE BRIDGE ACCESS TO BULK OIL)

ITEM	QUANTITY	UNIT	T	UNIT COST	T E	EXTENTION		
EXCAVATION	2600	cu m	- 1	6.00	\$	15,60		
EMBANKMENT	60000	cu m	9	3 10.00	) \$	600,00		
PAVEMENT REMOVAL	8388	sq m	- \$	5.00	\$	41,94		
					+*	41,04		
PAVEMENT	13417	sq m	\$	42.00	\$	563,51		
CURB AND GUTTER	2380	m	\$	56.00	\$	133,28		
SIDEWALK	0	sq m	\$	43.00	\$			
SOD AND TOPSOIL	32100	sq m	\$	5.60	\$	179,760		
DRAINAGE STRUCTURES	56	each	\$	1,165.00	\$	65,240		
STORM SEWER, 300	630	w	\$	78.00	\$	49,140		
STORM SEWER, 375	200	m	\$	82.00	\$	16,400		
STORM SEWER, 450	100	m	\$	86.00	\$_	8,600		
STORM SEWER, 600	150	m	\$	97.00	\$	14,550		
RIDGE STRUCTURE (2 over RRs)	1300	sq m	\$	810.00	\$	1,053,000		
EINF. EARTH RETAINING WALLS	3880	sq m	\$	250.00	\$	970,000		
RAFFIC SIGNALS	1	lump sum	\$	100,000.00	\$	100,000		
OW COSTS	1	lump sum	\$	443,300.00	\$	443,300		
ox Culvert	1	lump sum	\$	230,000.00	\$	230,000		
ESIDENCE RELOCATION	5	each	\$	77,500.00	\$	387,500		
OMMERCIAL RELOCATION	0	each	\$.	70,000.00	\$			
AMP A & B DEDUCTION	1	lump sum	\$	(676,320.00)	\$	(676,320)		
DRREST STREET IMPROVEMENTS	1	lump sum	\$	463,704.00	\$	463,704		
JBTOTAL DNTINGENCY (20%)		···	··		\$	4,659,208		
					\$	931,842		
RAND TOTAL					\$	5,591,050		